

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 09290989  
PUBLICATION DATE : 11-11-97

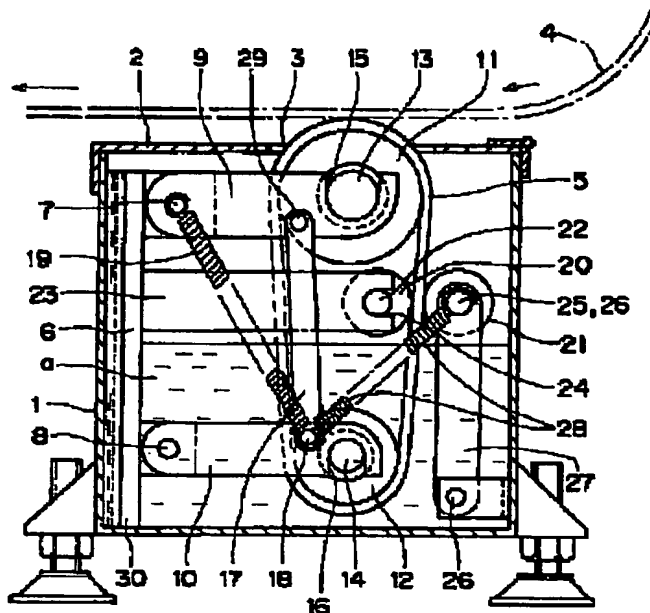
APPLICATION DATE : 26-04-96  
APPLICATION NUMBER : 08129285

APPLICANT : MASUDA MINORU;

INVENTOR : MASUDA MINORU;

INT.CL. : B66B 31/00

TITLE : ROTARY BELT STERILIZER



**ABSTRACT :** **PROBLEM TO BE SOLVED:** To provide a rotary belt sterilizer capable of automatically sterilizing an endless rotary belt which is also used as a handrail of an escalator, a moving walk, or the like with simple constitution, inexpensive in maintenance, and convenient in handling.

**SOLUTION:** A sterilizing rotary belt 5 which is pressed against a rotary belt 2 to be sterilized by the elasticity of an elastic mechanism and passes through the disinfectant solution in a box 1, and throttling mechanisms 20, 21 to appropriately adjust the amount of the disinfectant solution wetted on the sterilizing rotary belt 5 are installed in the box 1.

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PUBLICATION NUMBER : 09208173  
PUBLICATION DATE : 12-08-97

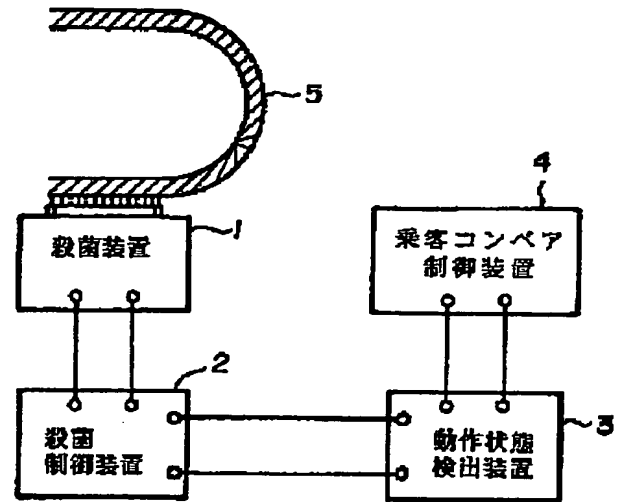
APPLICATION DATE : 06-02-96  
APPLICATION NUMBER : 08020011

APPLICANT : HITACHI BUILDING SYST CO LTD;

INVENTOR : OGAWA SHINJI;

INT.CL. : B66B 31/02

TITLE : HAND RAIL STERILIZING DEVICE FOR PASSENGER CONVEYOR



ABSTRACT : PROBLEM TO BE SOLVED: To improve safety and workability of an operator for maintaining a passenger conveyor by automatically controlling a sterilizing device with the operating state of the passenger conveyor, omitting the waste operation by the automatic control, extending the life of a production.

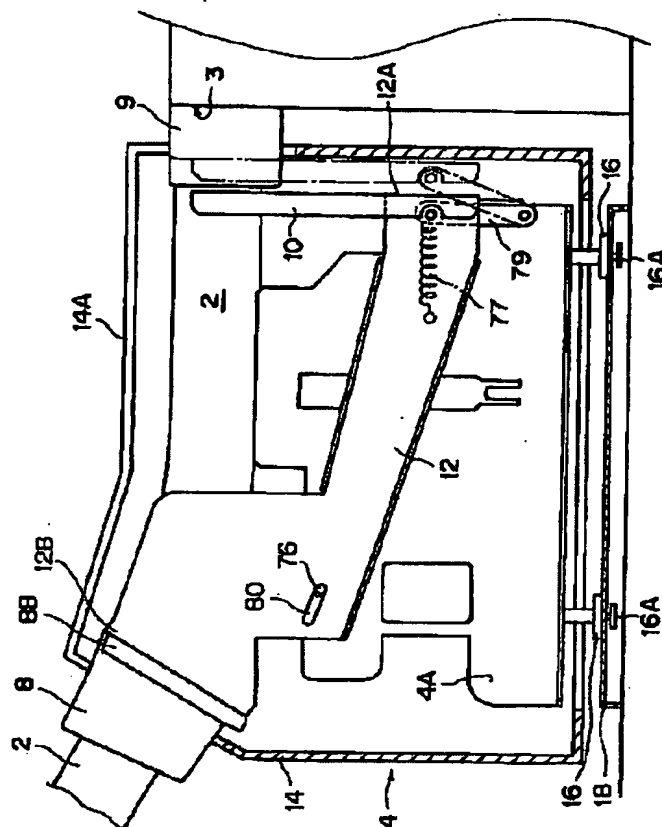
SOLUTION: A passenger conveyor controller 4 outputs the operating state of a passenger conveyor to an operating state detecting device 3. The operating state detecting device 3 detects the operating state of the passenger conveyor and outputs it to a sterilization controller 2. A sterilizing device 1 is controlled according to the operating state of the passenger conveyor by the sterilization controller 2. The sterilizing device 1 performs sterilization for a hand rail 5 by a command of the sterilization controller 2.

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PUBLICATION NUMBER : 2002205890  
PUBLICATION DATE : 23-07-02  
  
APPLICATION DATE : 09-01-01  
APPLICATION NUMBER : 2001001560  
  
APPLICANT : MASUDA MINORU;  
  
INVENTOR : MASUDA MINORU;  
  
INT.CL. : B66B 31/02 B66B 29/04  
  
TITLE : CLEANING DEVICE FOR HANDRAIL BELT



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a cleaning device for a handrail belt capable of operating the safety device of the handrail belt when a hand or a leg of a child or the like is drawn between the cleaning device and the handrail belt.

**SOLUTION:** This cleaning device for the handrail belt is provided with a cleaning device body 4 installed near the entrance 3 of the handrail belt 2 of a passenger conveyor, a cleaning member 6 provided in the cleaning device body 4 to abut the surface of the handrail belt 2 and apply a disinfectant or the like to it, a disinfectant feeding member 26 feeding the disinfectant or the like to the cleaning member 6, a receiving member 8 provided along the handrail belt at a gap so as not to hinder the operation of the handrail belt 2 on the opposite side to the entrance 3 of the handrail belt 2 of the cleaning device body 4, and a stress transfer member 10 transferring stress to the safety device 9 provided at the entrance 3 of the handrail belt 2 when stress is applied to the receiving member 8.

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